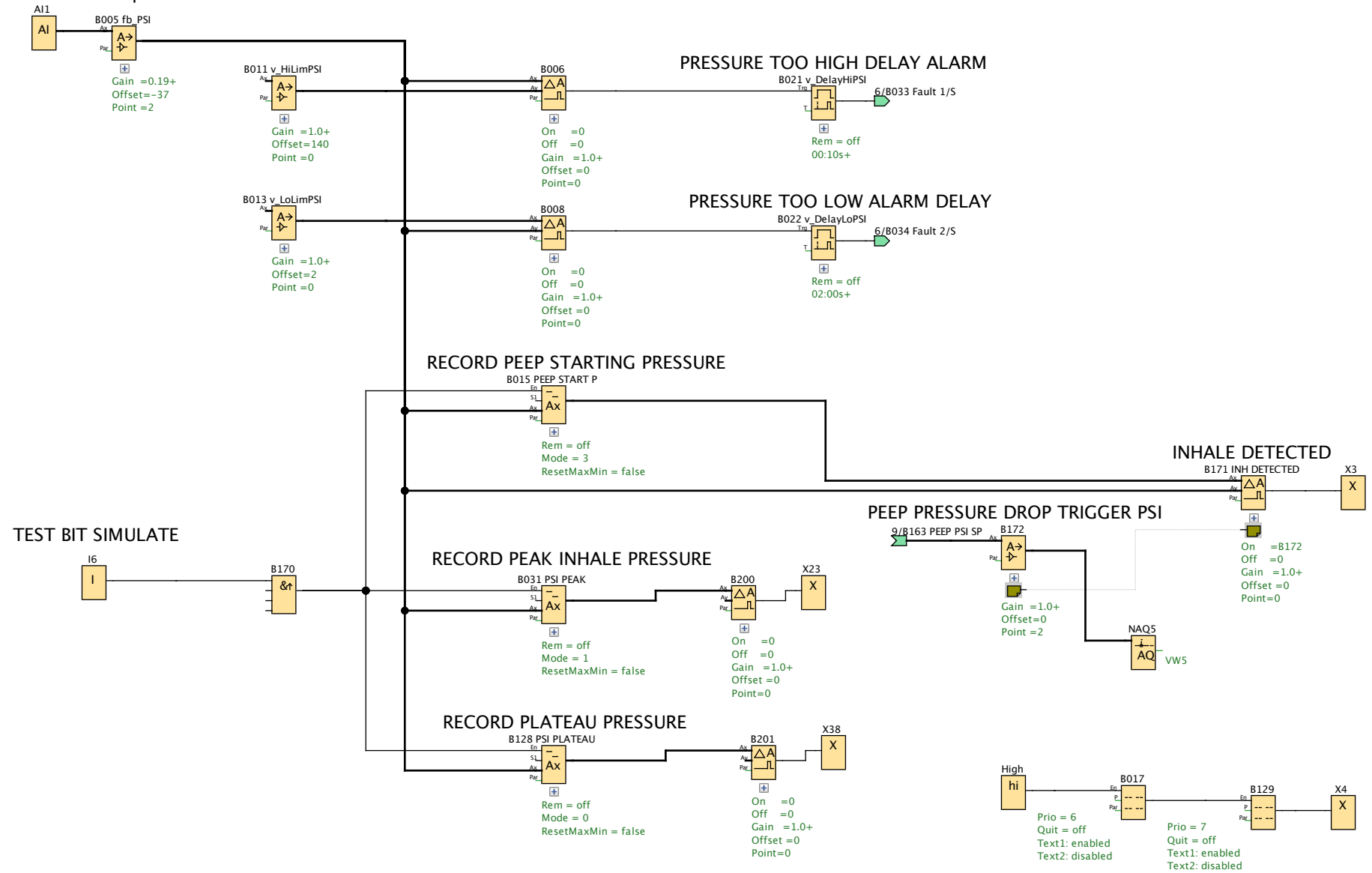


PAGE 1 - PRESSURE MEASUREMENT

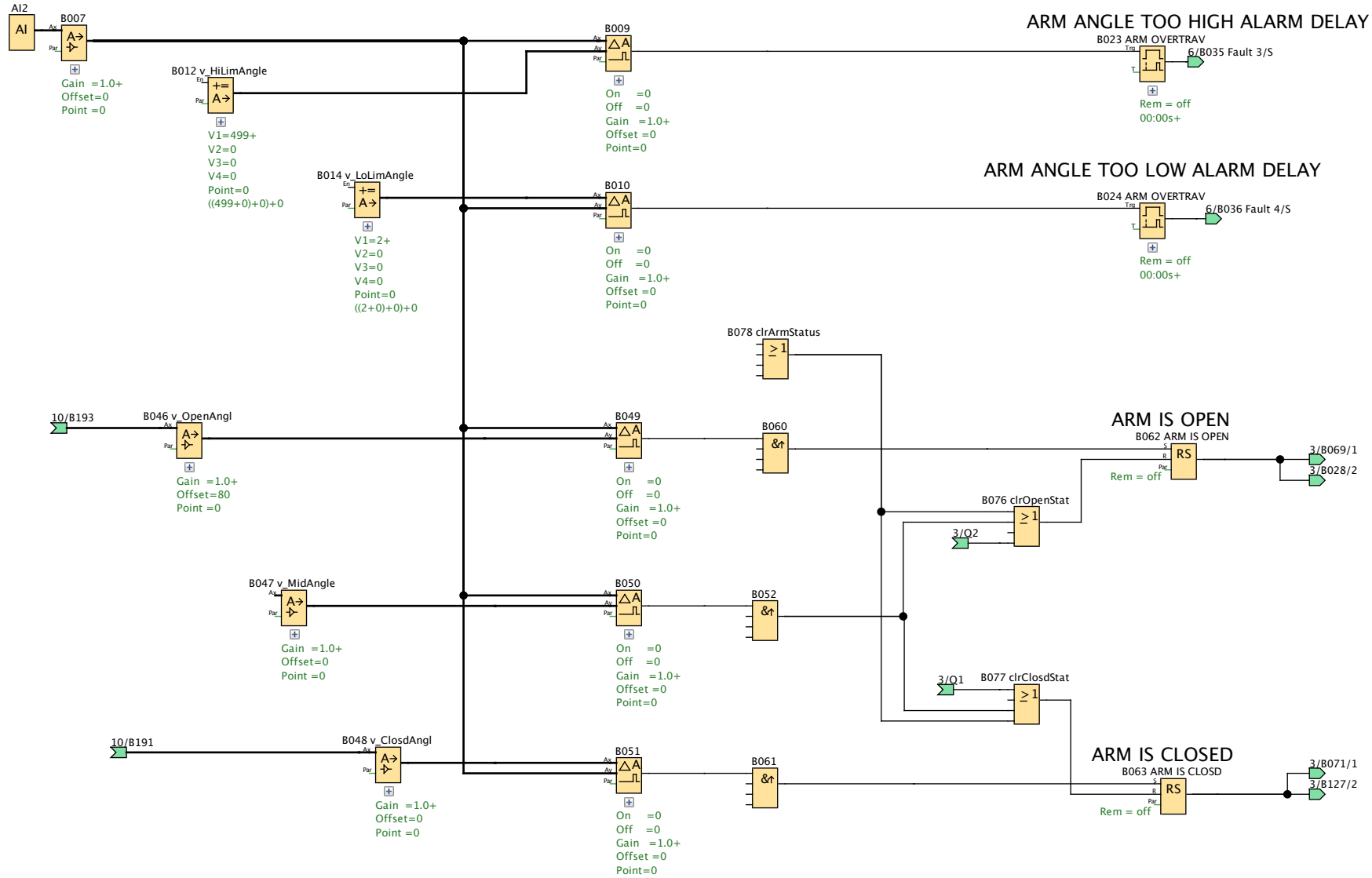
Pressure 0-10V 0-1.45psi



Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
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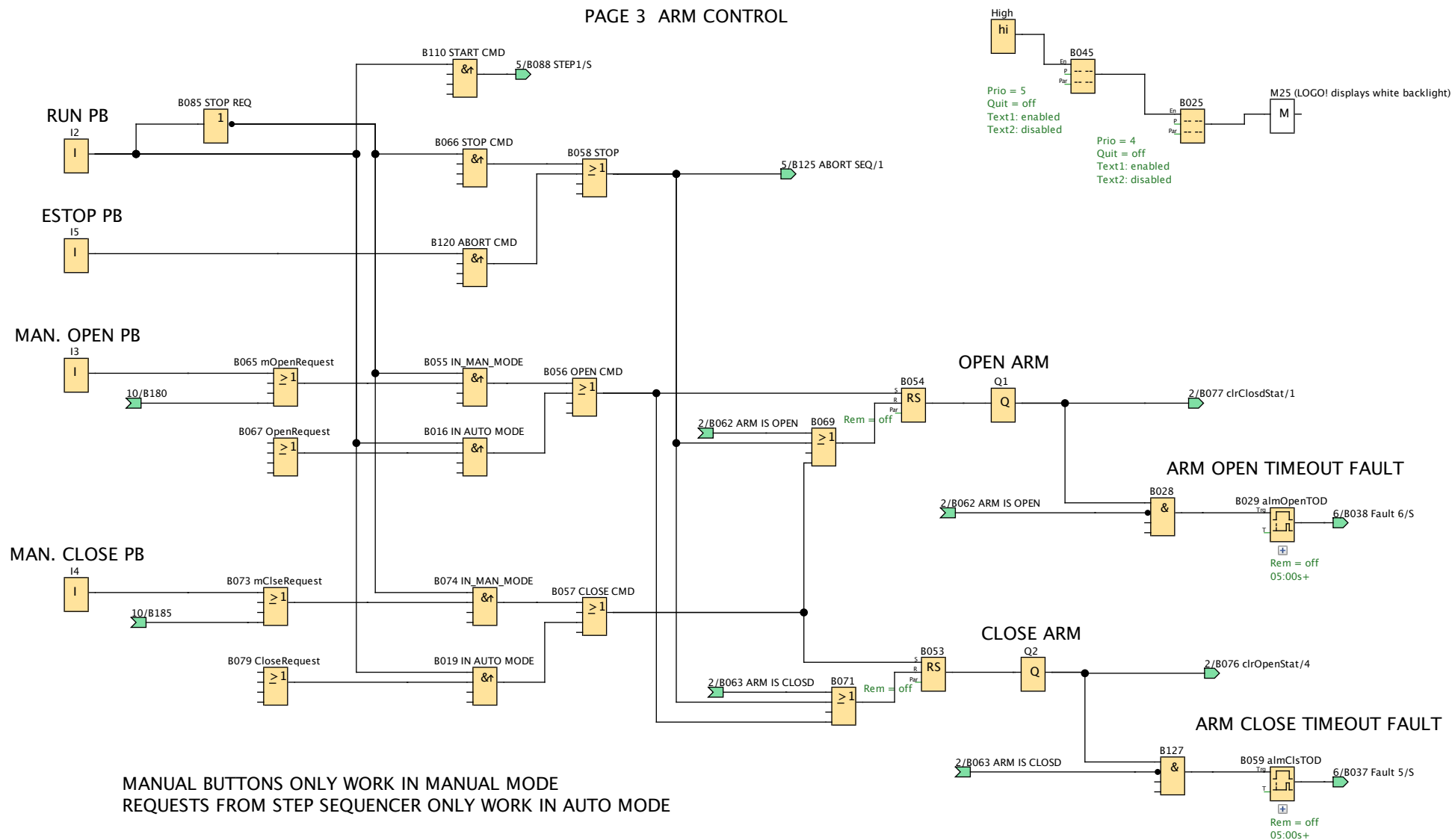
PAGE 2 - ARM ANGLE MEASUREMENT

ARM ANGLE 0-5V = 0-180 DEG



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PAGE 3 ARM CONTROL



MANUAL BUTTONS ONLY WORK IN MANUAL MODE  
 REQUESTS FROM STEP SEQUENCER ONLY WORK IN AUTO MODE

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PAGE 4 TICK TOCK BIT

STEP 1 (HOMING). RETURN ARM TO HOME POSITION, RESET IO TO INITIAL STATE  
RESET MAX PRESSURE.

STEP 2. (INHALE) ADVANCE ARM TO CLAMPING POSITION, RECORD MAX PRESSURE

STEP 3. (PLATEAU) WAIT XXXX MSEC

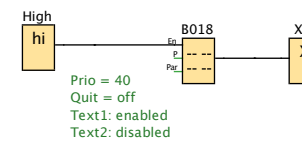
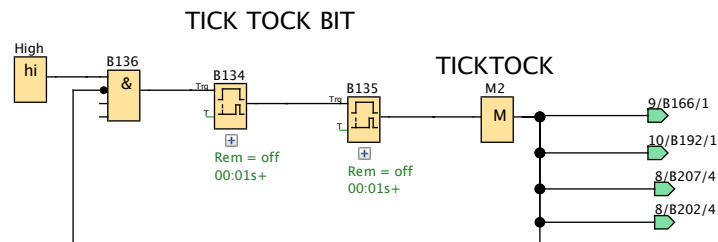
STEP 4. RECORD PLATEAU PRESSURE

STEP 5. (EXHALE) RETURN ARM TO RETRACTED POSITION

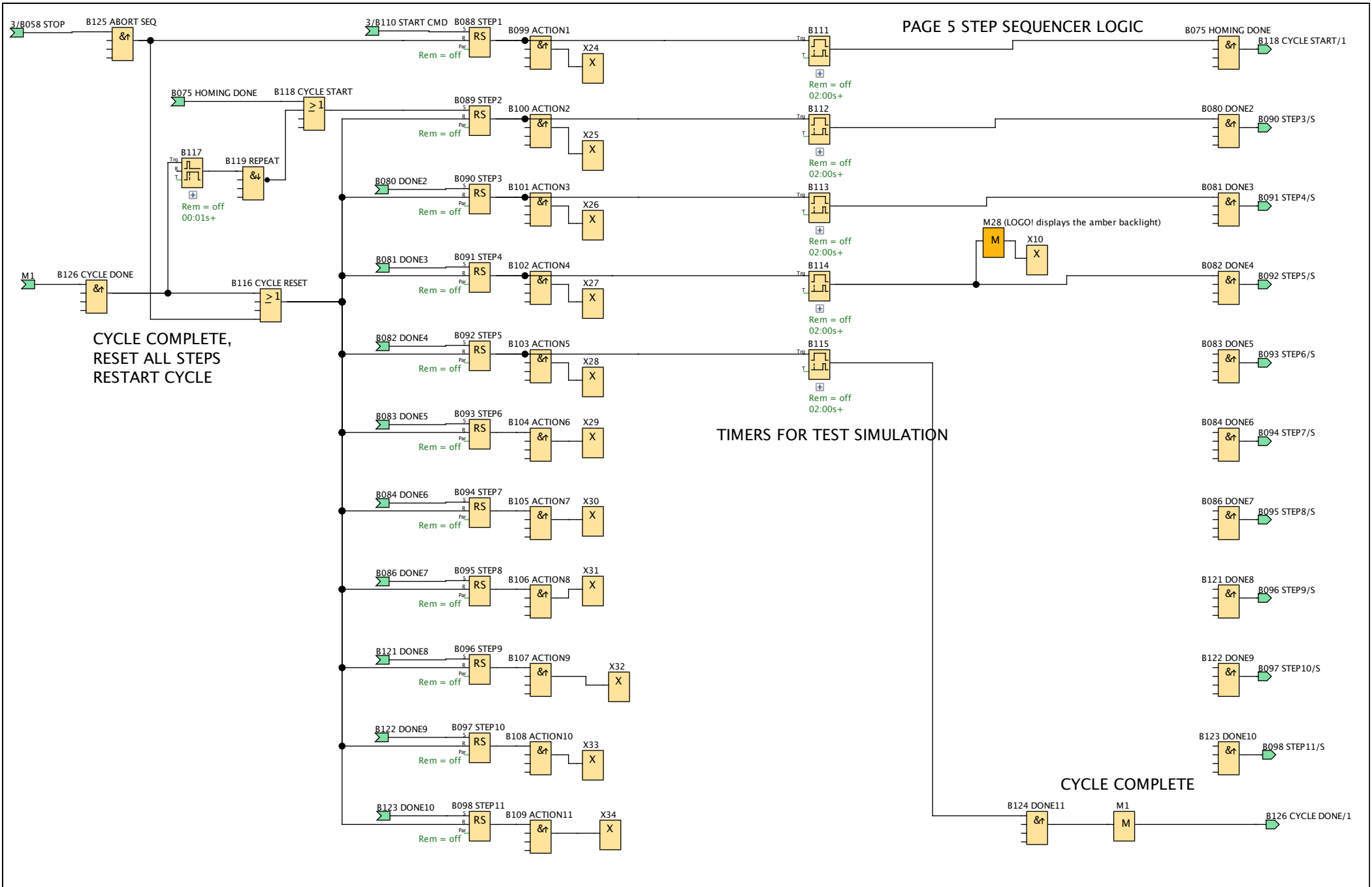
STEP 6. (MEASURE PEEP) RECORD PEEP PRESSURE

STEP 7. (PEEP) WAIT FOR PRESSURE TO DROP BELOW TRIGGER THRESHOLD  
TO INITIATE NEXT BREATH, OR GO TO NEXT STEP AFTER XXX SEC.

STEP 8. GO TO STEP 2

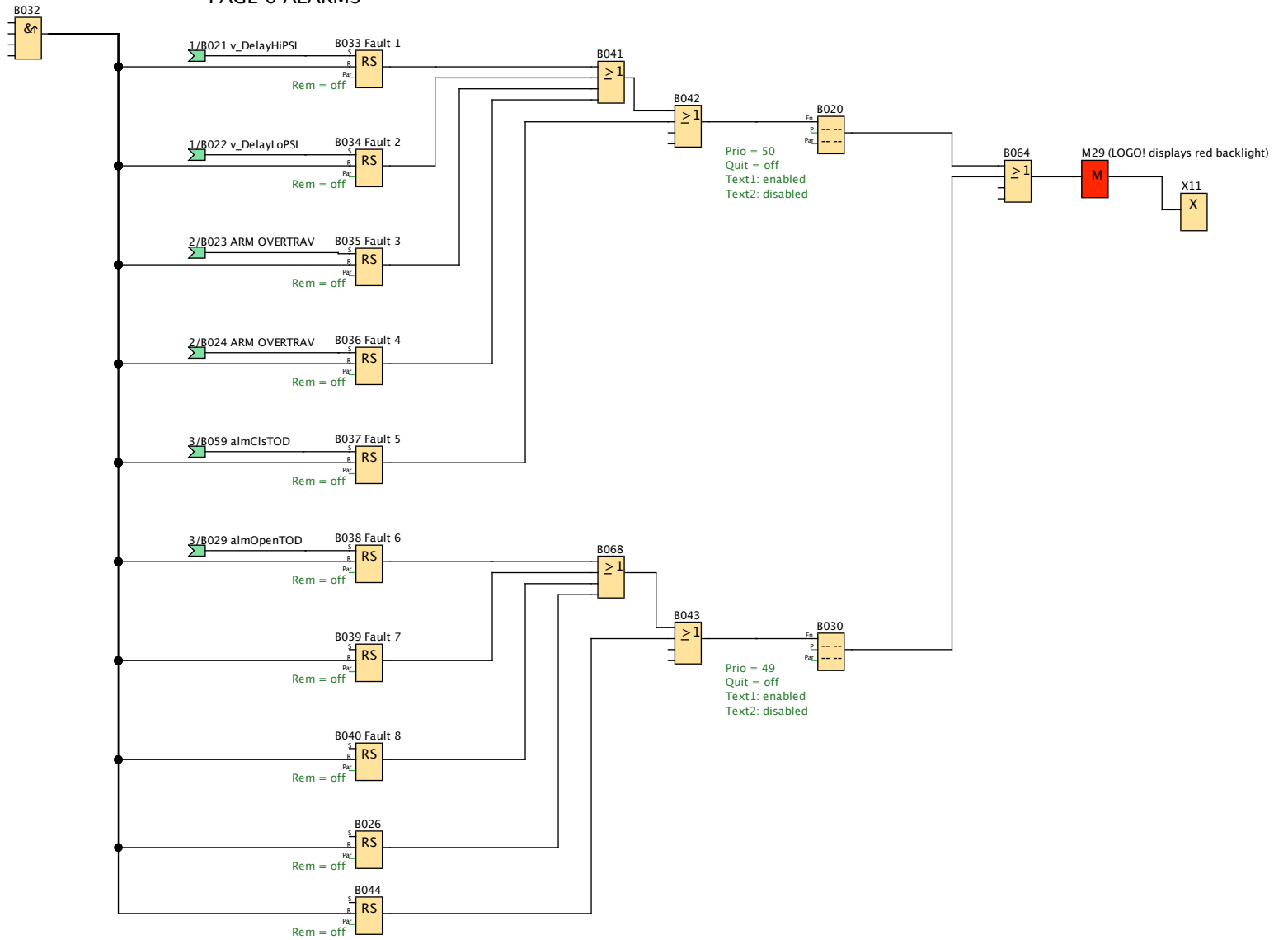


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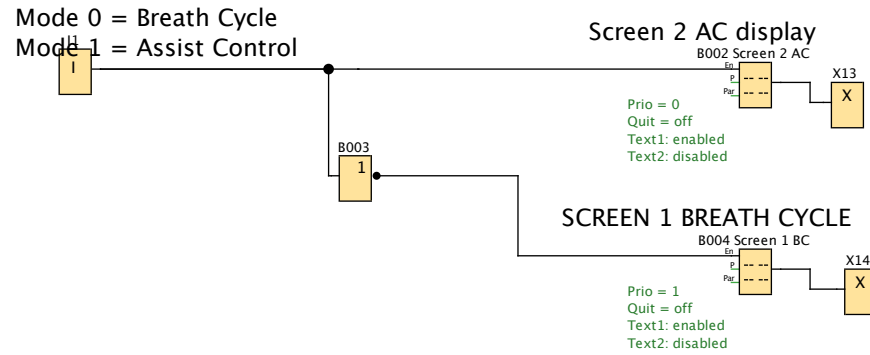
Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
Checked:		Installation:		Diagram No.:	
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### PAGE 6 ALARMS



Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
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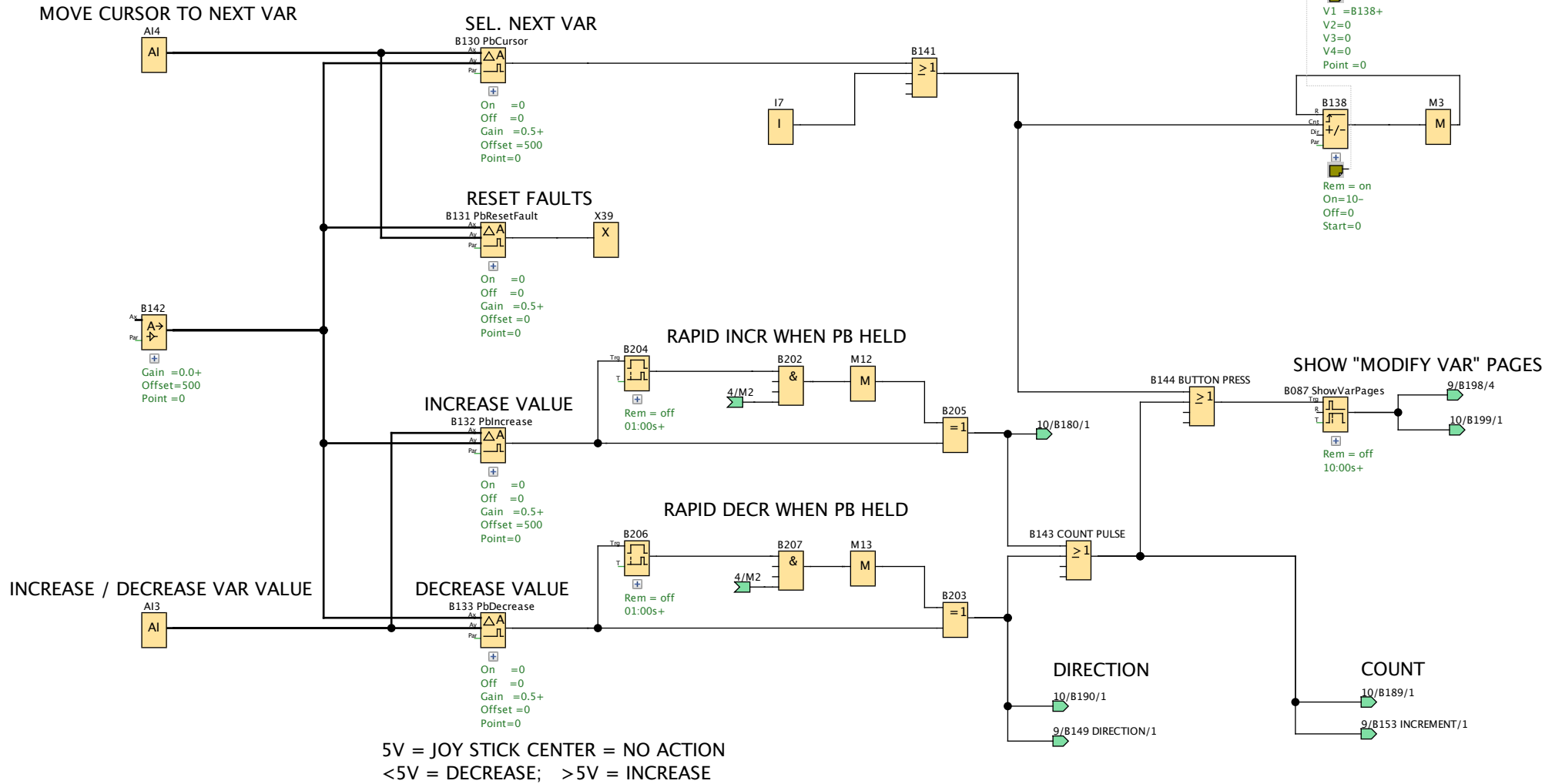
PAGE 7 MODE SELECT



Add counter for total breathing cycles since start  
Add counter for pressure triggered breathing cycles since start  
Add lifetime breathing cycles

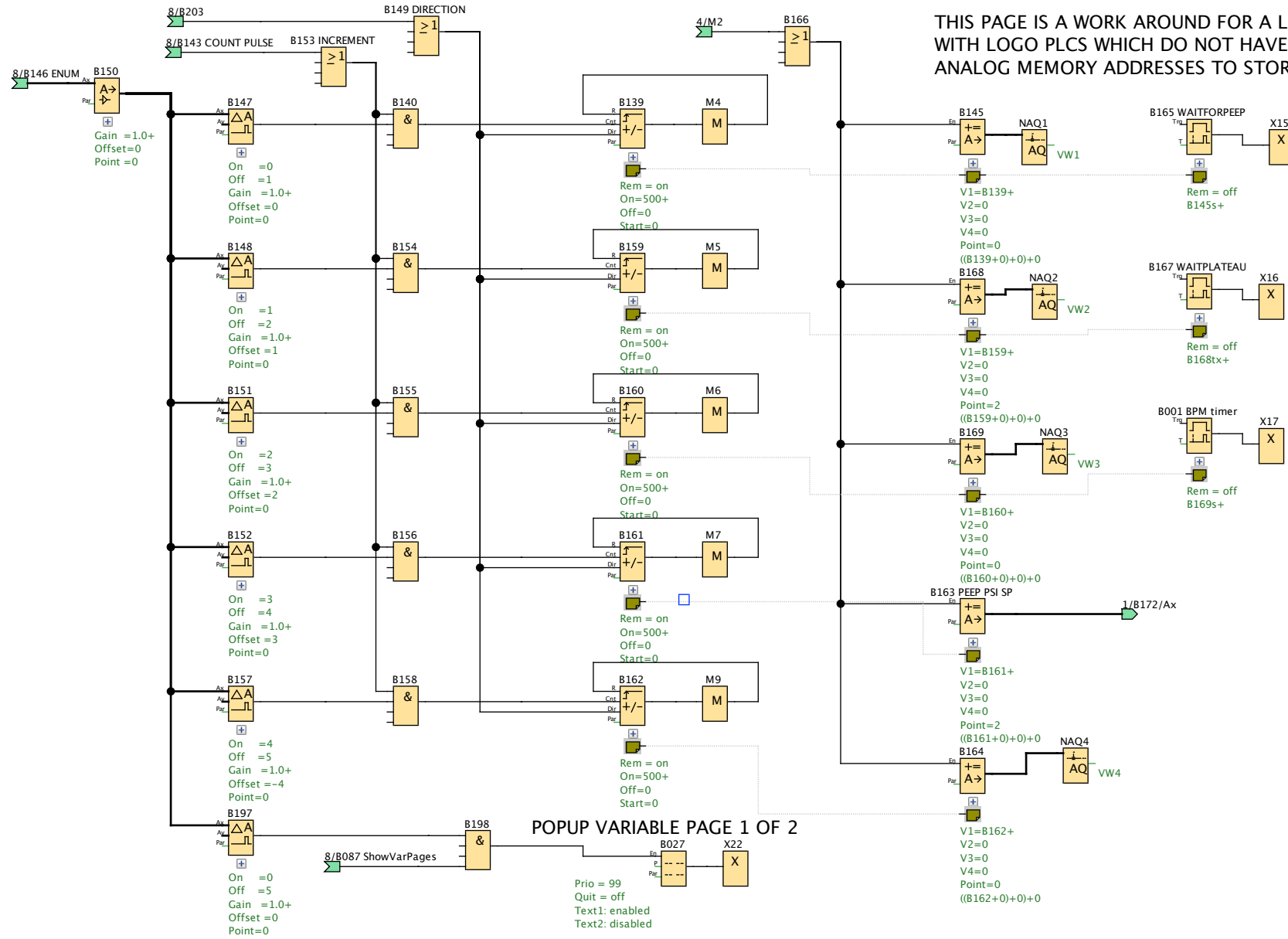
Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
Checked:		Installation:		Diagram No.:	
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PAGE 8  
 4 WAY JOYSTICK CONTROL FOR MOVING CURSOR AND  
 INCREASING DECREASING VARIABLE VALUES

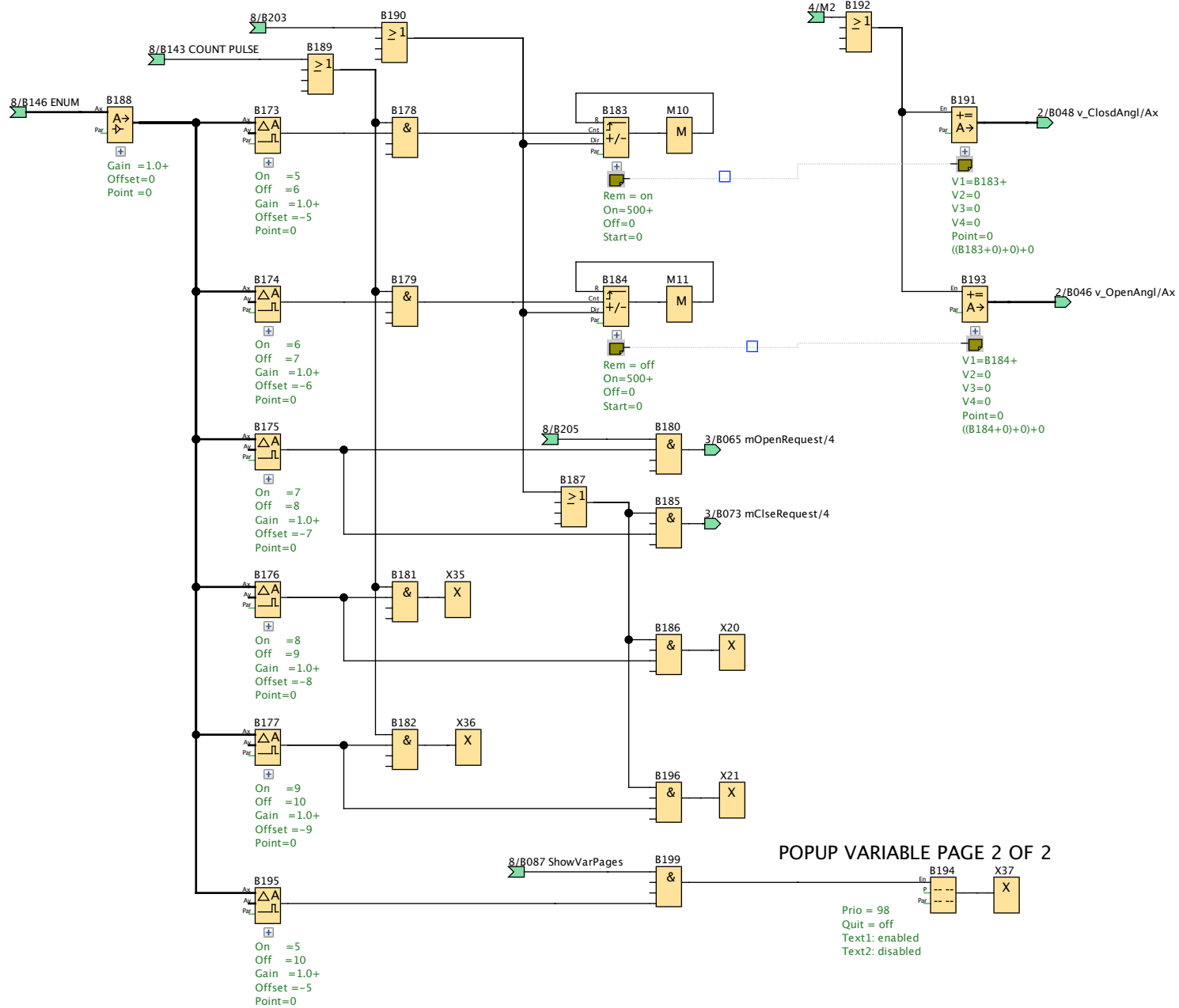


Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
Checked:		Installation:		Diagram No.:	
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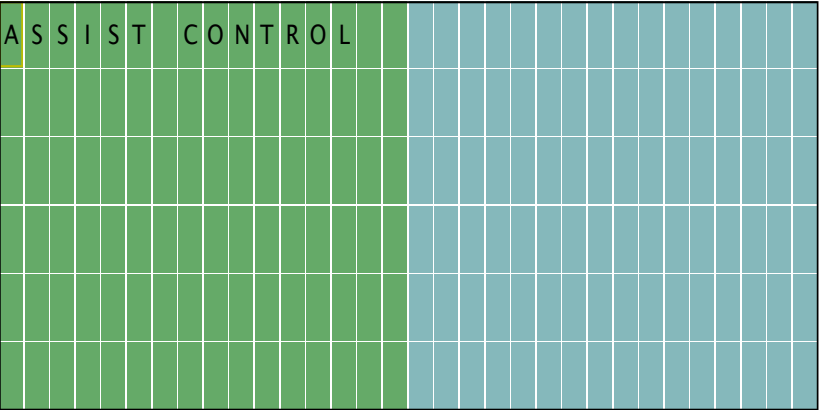
THIS PAGE IS A WORK AROUND FOR A LIMINATION WITH LOGO PLCs WHICH DO NOT HAVE ANALOG MEMORY ADDRESSES TO STORE VALUES



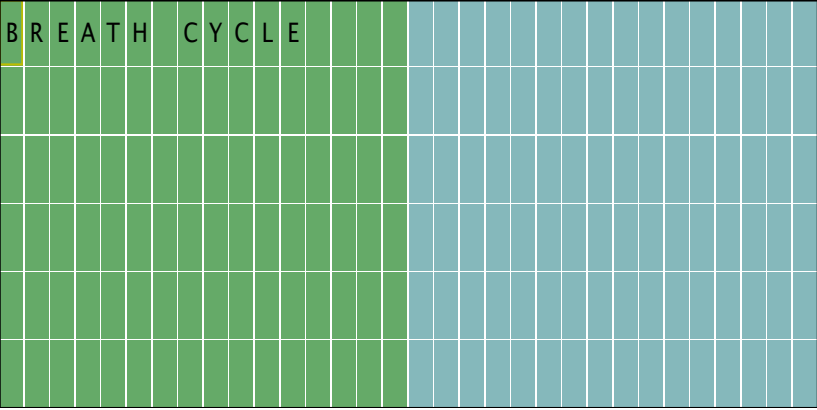
Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
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Block Number (Type)	Parameter
A11(Analog input) : Pressure 0-10V 0-1.45psi	
A12(Analog input) : ARM ANGLE 0-5V = 0-180 DEG	
A13(Analog input) : INCREASE / DECREASE VAR VALUE	
A14(Analog input) : MOVE CURSOR TO NEXT VAR	
B001 BPM timer(On-Delay) :	Rem = off B169s+
B002 Screen 2 AC(Message texts) : Screen 2 AC display  	Prio = 0 Quit = off Text1: enabled Text2: disabled  --> Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both

Creator:	Eric Tischer		Project:	DIY Ventilator	Customer:	OpenSource
Checked:			Installation:		Diagram No.:	
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Block Number (Type)	Parameter
<p>B004 Screen 1 BC(Message texts) : SCREEN 1 BREATH CYCLE</p> 	<p>Prio = 1 Quit = off Text1: enabled Text2: disabled</p> <p>--&gt; Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both</p>
<p>B005 fb_PSI(Analog Amplifier) :</p>	<p>Gain =0.19+ Offset=-37 Point =2</p>
<p>B006(Analog Comparator) :</p>	<p>On =0 Off =0 Gain =1.0+ Offset =0 Point=0</p>
<p>B007(Analog Amplifier) :</p>	<p>Gain =1.0+ Offset=0 Point =0</p>
<p>B008(Analog Comparator) :</p>	<p>On =0 Off =0 Gain =1.0+ Offset =0 Point=0</p>

Creator:	Eric Tischer		Project:	DIY Ventilator	Customer:	OpenSource
Checked:			Installation:		Diagram No.:	
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Block Number (Type)	Parameter
B009(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B010(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B011 v_HiLimPSI(Analog Amplifier) :	Gain =1.0+ Offset=140 Point =0
B012 v_HiLimAngle(Mathematic instruction) :	V1=499+ V2=0 V3=0 V4=0 Point=0 ((499+0)+0)+0
B013 v_LoLimPSI(Analog Amplifier) :	Gain =1.0+ Offset=2 Point =0
B014 v_LoLimAngle(Mathematic instruction) :	V1=2+ V2=0 V3=0 V4=0 Point=0 ((2+0)+0)+0
B015 PEEP START P(Max/Min) : RECORD PEEP STARTING PRESSURE	Rem = off Mode = 3 ResetMaxMin = false

Creator:	Eric Tischer		Project:	DIY Ventilator	Customer:	OpenSource
Checked:			Installation:		Diagram No.:	
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**Block Number (Type)**

**Parameter**

B018(Message texts) :

Prio = 40  
 Quit = off  
 Text1: enabled  
 Text2: disabled

- STEP - SEQUENCE - -									
B088	STEP1	...	1:HOMED *	0:step 1	B093	STEP6	...	1:STEP 6*	0:step 6
B089	STEP2	...	1:STEP 2*	0:step 2	B094	STEP7	...	1:STEP 7*	0:step 7
B090	STEP3	...	1:STEP 3*	0:step 3	B095	STEP8	...	1:STEP 8*	0:step 8
B091	STEP4	...	1:STEP 4*	0:step 4					
B092	STEP5	...	1:STEP 5*	0:step 5					

--> Ticker setting  
 - CBC  
 - Line1: N  
 - Line2: N  
 - Line3: N  
 - Line4: N  
 - Line5: N  
 - Line6: N  
 Message Destination  
 - Both

Line2.1 IOStatus: B088 STEP1;Off="step 1";On="HOMED \*\*"  
 Line2.10 IOStatus: B093 STEP6;Off="step 6";On="STEP 6\*\*"  
 Line3.1 IOStatus: B089 STEP2;Off="step 2";On="STEP 2\*\*"  
 Line3.10 IOStatus: B094 STEP7;Off="step 7";On="STEP 7\*\*"  
 Line4.1 IOStatus: B090 STEP3;Off="step 3";On="STEP 3\*\*"  
 Line4.10 IOStatus: B095 STEP8;Off="step 8";On="STEP 8\*\*"  
 Line5.1 IOStatus: B091 STEP4;Off="step 4";On="STEP 4\*\*"  
 Line6.1 IOStatus: B092 STEP5;Off="step 5";On="STEP 5\*\*"

Creator:	Eric Tischer	Project:	DIY Ventilator	Customer:	OpenSource
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Block Number (Type)	Parameter																		
<p>B027(Message texts) : POPUP VARIABLE PAGE 1 OF 2</p> <table border="1" data-bbox="129 304 945 715"> <thead> <tr> <th>MODIFY</th> <th>VALUE</th> <th>1 / 2</th> </tr> </thead> <tbody> <tr> <td>PeepTime</td> <td>+ B145 - Aq amp... 0</td> <td>B147 [Analog C... 0: 1:*</td> </tr> <tr> <td>PleatEAU</td> <td>+ B168 - Aq amp... 0.00</td> <td>B148 [Analog C... 0: 1:*</td> </tr> <tr> <td>CycleSec</td> <td>+ B169 - Aq amp... 0</td> <td>B151 [Analog C... 0: 1:*</td> </tr> <tr> <td>PeepPSI</td> <td>+ B163 PEEP PSI ... 0.00</td> <td>B152 [Analog C... 0: 1:*</td> </tr> <tr> <td></td> <td>+ B164 - Aq amp... 0</td> <td>B157 [Analog C... 0: 1:*</td> </tr> </tbody> </table> <p>Line2.9 B145-Aq Line2.16 IOStatus: B147;Off="";On="*" Line3.9 B168-Aq Line3.16 IOStatus: B148;Off="";On="*" Line4.9 B169-Aq Line4.16 IOStatus: B151;Off="";On="*" Line5.9 B163 PEEP PSI SP-Aq Line5.16 IOStatus: B152;Off="";On="*" Line6.9 B164-Aq Line6.16 IOStatus: B157;Off="";On="*"</p>	MODIFY	VALUE	1 / 2	PeepTime	+ B145 - Aq amp... 0	B147 [Analog C... 0: 1:*	PleatEAU	+ B168 - Aq amp... 0.00	B148 [Analog C... 0: 1:*	CycleSec	+ B169 - Aq amp... 0	B151 [Analog C... 0: 1:*	PeepPSI	+ B163 PEEP PSI ... 0.00	B152 [Analog C... 0: 1:*		+ B164 - Aq amp... 0	B157 [Analog C... 0: 1:*	<p>Prio = 99 Quit = off Text1: enabled Text2: disabled</p> <p>--&gt; Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both</p>
MODIFY	VALUE	1 / 2																	
PeepTime	+ B145 - Aq amp... 0	B147 [Analog C... 0: 1:*																	
PleatEAU	+ B168 - Aq amp... 0.00	B148 [Analog C... 0: 1:*																	
CycleSec	+ B169 - Aq amp... 0	B151 [Analog C... 0: 1:*																	
PeepPSI	+ B163 PEEP PSI ... 0.00	B152 [Analog C... 0: 1:*																	
	+ B164 - Aq amp... 0	B157 [Analog C... 0: 1:*																	
<p>B029 almOpenTOD(On-Delay) :</p>	<p>Rem = off 05:00s+</p>																		

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Block Number (Type)	Parameter																																																																						
<p>B030(Message texts) :</p> <table border="1" data-bbox="125 301 943 711"> <tr> <td colspan="10">- A L A R M - S C R E E N - 2 -</td> </tr> <tr> <td>O P E N</td><td>T I M E O U T</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>B038 Fault 6 [...]</td> <td>0:OK 1:NOK</td> </tr> <tr> <td>F A U L T</td><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>B039 Fault 7 [...]</td> <td>0:OK 1:NOK</td> </tr> <tr> <td>F A U L T</td><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>B040 Fault 8 [...]</td> <td>0:OK 1:NOK</td> </tr> <tr> <td>F A U L T</td><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>B026 [Latchin...]</td> <td>0:OK 1:NOK</td> </tr> <tr> <td>F A U L T</td><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>B044 [Latchin...]</td> <td>0:OK 1:NOK</td> </tr> </table> <p>Line2.14 IOStatus: B038 Fault 6; Off="OK"; On="NOK"  Line3.14 IOStatus: B039 Fault 7; Off="OK"; On="NOK"  Line4.14 IOStatus: B040 Fault 8; Off="OK"; On="NOK"  Line5.14 IOStatus: B026; Off="OK"; On="NOK"  Line6.14 IOStatus: B044; Off="OK"; On="NOK"</p>	- A L A R M - S C R E E N - 2 -										O P E N	T I M E O U T									B038 Fault 6 [...]	0:OK 1:NOK	F A U L T	7									B039 Fault 7 [...]	0:OK 1:NOK	F A U L T	8									B040 Fault 8 [...]	0:OK 1:NOK	F A U L T	9									B026 [Latchin...]	0:OK 1:NOK	F A U L T	10									B044 [Latchin...]	0:OK 1:NOK	<p>Prio = 49  Quit = off  Text1: enabled  Text2: disabled</p> <p>--&gt; Ticker setting  - CBC  - Line1: N  - Line2: N  - Line3: N  - Line4: N  - Line5: N  - Line6: N  Message Destination  - Both</p>
- A L A R M - S C R E E N - 2 -																																																																							
O P E N	T I M E O U T									B038 Fault 6 [...]	0:OK 1:NOK																																																												
F A U L T	7									B039 Fault 7 [...]	0:OK 1:NOK																																																												
F A U L T	8									B040 Fault 8 [...]	0:OK 1:NOK																																																												
F A U L T	9									B026 [Latchin...]	0:OK 1:NOK																																																												
F A U L T	10									B044 [Latchin...]	0:OK 1:NOK																																																												
<p>B031 PSI PEAK(Max/Min) :  RECORD PEAK INHALE PRESSURE</p>	<p>Rem = off  Mode = 1  ResetMaxMin = false</p>																																																																						
<p>B032(AND (Edge)) :  PAGE 6 ALARMS</p>																																																																							
<p>B033 Fault 1(Latching Relay) :</p>	<p>Rem = off</p>																																																																						
<p>B034 Fault 2(Latching Relay) :</p>	<p>Rem = off</p>																																																																						
<p>B035 Fault 3(Latching Relay) :</p>	<p>Rem = off</p>																																																																						
<p>B036 Fault 4(Latching Relay) :</p>	<p>Rem = off</p>																																																																						
<p>Creator:</p>	<p>Eric Tischer</p>	<p>Project:</p>	<p>DIY Ventilator</p>	<p>Customer:</p>	<p>OpenSource</p>																																																																		
<p>Checked:</p>		<p>Installation:</p>		<p>Diagram No.:</p>																																																																			
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Block Number (Type)	Parameter
B047 v_MidAngle(Analog Amplifier) :	Gain =1.0+ Offset=0 Point =0
B048 v_ClosdAngl(Analog Amplifier) :	Gain =1.0+ Offset=0 Point =0
B049(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B050(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B051(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B053(Latching Relay) :	Rem = off
B054(Latching Relay) :	Rem = off
B059 almClstOD(On-Delay) :	Rem = off 05:00s+
B062 ARM IS OPEN(Latching Relay) : ARM IS OPEN	Rem = off
B063 ARM IS CLOSD(Latching Relay) : ARM IS CLOSED	Rem = off

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Block Number (Type)	Parameter
B087 ShowVarPages(Off-Delay) :	Rem = off 10:00s+
B088 STEP1(Latching Relay) :	Rem = off
B089 STEP2(Latching Relay) :	Rem = off
B090 STEP3(Latching Relay) :	Rem = off
B091 STEP4(Latching Relay) :	Rem = off
B092 STEP5(Latching Relay) :	Rem = off
B093 STEP6(Latching Relay) :	Rem = off
B094 STEP7(Latching Relay) :	Rem = off
B095 STEP8(Latching Relay) :	Rem = off
B096 STEP9(Latching Relay) :	Rem = off
B097 STEP10(Latching Relay) :	Rem = off
B098 STEP11(Latching Relay) :	Rem = off
B111(On-Delay) :	Rem = off 02:00s+
B112(On-Delay) :	Rem = off 02:00s+
B113(On-Delay) :	Rem = off 02:00s+
B114(On-Delay) :	Rem = off 02:00s+

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Block Number (Type)	Parameter
B131 PbResetFault(Analog Comparator) : RESET FAULTS	On =0 Off =0 Gain =0.5+ Offset =0 Point=0
B132 PbIncrease(Analog Comparator) : INCREASE VALUE	On =0 Off =0 Gain =0.5+ Offset =500 Point=0
B133 PbDecrease(Analog Comparator) : DECREASE VALUE	On =0 Off =0 Gain =0.5+ Offset =0 Point=0
B134(On-Delay) :	Rem = off 00:01s+
B135(On-Delay) :	Rem = off 00:01s+
B138(Up/Down counter) :	Rem = on On=10- Off=0 Start=0
B139(Up/Down counter) :	Rem = on On=500+ Off=0 Start=0
B142(Analog Amplifier) :	Gain =0.0+ Offset=500 Point =0

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Block Number (Type)	Parameter
B145(Mathematic instruction) :	V1=B139+ V2=0 V3=0 V4=0 Point=0 ((B139+0)+0)+0
B146 ENUM(Analog MUX) : VARIABLE SELECTED ENUM	V1 =B138+ V2=0 V3=0 V4=0 Point =0
B147(Analog Comparator) :	On =0 Off =1 Gain =1.0+ Offset =0 Point=0
B148(Analog Comparator) :	On =1 Off =2 Gain =1.0+ Offset =1 Point=0
B150(Analog Amplifier) :	Gain =1.0+ Offset=0 Point =0
B151(Analog Comparator) :	On =2 Off =3 Gain =1.0+ Offset =2 Point=0
B152(Analog Comparator) :	On =3 Off =4 Gain =1.0+ Offset =3 Point=0

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Block Number (Type)	Parameter
B157(Analog Comparator) :	On =4 Off =5 Gain =1.0+ Offset =-4 Point=0
B159(Up/Down counter) :	Rem = on On=500+ Off=0 Start=0
B160(Up/Down counter) :	Rem = on On=500+ Off=0 Start=0
B161(Up/Down counter) :	Rem = on On=500+ Off=0 Start=0
B162(Up/Down counter) :	Rem = on On=500+ Off=0 Start=0
B163 PEEP PSI SP(Mathematic instruction) :	V1=B161+ V2=0 V3=0 V4=0 Point=2 ((B161+0)+0)+0
B164(Mathematic instruction) :	V1=B162+ V2=0 V3=0 V4=0 Point=0 ((B162+0)+0)+0

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Block Number (Type)	Parameter
B165 WAITFORPEEP(On-Delay) :	Rem = off B145s+
B167 WAITPLATEAU(On-Delay) :	Rem = off B168tx+
B168(Mathematic instruction) :	V1=B159+ V2=0 V3=0 V4=0 Point=2 ((B159+0)+0)+0
B169(Mathematic instruction) :	V1=B160+ V2=0 V3=0 V4=0 Point=0 ((B160+0)+0)+0
B171 INH DETECTED(Analog Comparator) : INHALE DETECTED	On =B172 Off =0 Gain =1.0+ Offset =0 Point=0
B172(Analog Amplifier) : PEEP PRESSURE DROP TRIGGER PSI	Gain =1.0+ Offset=0 Point =2
B173(Analog Comparator) :	On =5 Off =6 Gain =1.0+ Offset =-5 Point=0
B174(Analog Comparator) :	On =6 Off =7 Gain =1.0+ Offset =-6 Point=0

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Block Number (Type)	Parameter
B175(Analog Comparator) :	On =7 Off =8 Gain =1.0+ Offset =-7 Point=0
B176(Analog Comparator) :	On =8 Off =9 Gain =1.0+ Offset =-8 Point=0
B177(Analog Comparator) :	On =9 Off =10 Gain =1.0+ Offset =-9 Point=0
B183(Up/Down counter) :	Rem = on On=500+ Off=0 Start=0
B184(Up/Down counter) :	Rem = off On=500+ Off=0 Start=0
B188(Analog Amplifier) :	Gain =1.0+ Offset=0 Point =0
B191(Mathematic instruction) :	V1=B183+ V2=0 V3=0 V4=0 Point=0 ((B183+0)+0)+0

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<b>Block Number (Type)</b>	<b>Parameter</b>
B193(Mathematic instruction) :	V1=B184+ V2=0 V3=0 V4=0 Point=0 ((B184+0)+0)+0

B194(Message texts) : POPOP VARIABLE PAGE 2 OF 2	Prio = 98 Quit = off Text1: enabled Text2: disabled																																																																																																
<table border="1"> <tr> <td colspan="16">MODIFY VALUE 2 / 2</td> </tr> <tr> <td colspan="16">Close Pos <math>\hat{A} \rightarrow</math> += B191 - Aq amp... 0 B173 [Analog C... 0: 1:*</td> </tr> <tr> <td colspan="16">Open Pos <math>\hat{A} \rightarrow</math> += B193 - Aq amp... 0 B174 [Analog C... 0: 1:*</td> </tr> <tr> <td colspan="16">USE L &amp; R TO JOG B175 [Analog C... 0: 1:*</td> </tr> <tr> <td colspan="16">B185 [AND] 0:close 1:CLOSE B180 [AND] 0:open 1:OPEN</td> </tr> <tr> <td colspan="16">B176 [Analog C... 0: 1:*</td> </tr> </table>	MODIFY VALUE 2 / 2																Close Pos $\hat{A} \rightarrow$ += B191 - Aq amp... 0 B173 [Analog C... 0: 1:*																Open Pos $\hat{A} \rightarrow$ += B193 - Aq amp... 0 B174 [Analog C... 0: 1:*																USE L & R TO JOG B175 [Analog C... 0: 1:*																B185 [AND] 0:close 1:CLOSE B180 [AND] 0:open 1:OPEN																B176 [Analog C... 0: 1:*																<p>--&gt; Ticker setting</p> <ul style="list-style-type: none"> <li>- CBC</li> <li>- Line1: N</li> <li>- Line2: N</li> <li>- Line3: N</li> <li>- Line4: N</li> <li>- Line5: N</li> <li>- Line6: N</li> </ul> <p>Message Destination</p> <ul style="list-style-type: none"> <li>- Both</li> </ul>
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B176 [Analog C... 0: 1:*																																																																																																	
<p>Line2.9 B191-Aq Line2.16 IOStatus: B173;Off="";On="*" Line3.9 B193-Aq Line3.16 IOStatus: B174;Off="";On="*" Line4.16 IOStatus: B175;Off="";On="*" Line5.1 IOStatus: B185;Off="close";On="CLOSE" Line5.9 IOStatus: B180;Off="open";On="OPEN" Line6.16 IOStatus: B176;Off="";On="*"</p>																																																																																																	

B195(Analog Comparator) :	On =5 Off =10 Gain =1.0+ Offset =-5 Point=0
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Block Number (Type)	Parameter
B197(Analog Comparator) :	On =0 Off =5 Gain =1.0+ Offset =0 Point=0
B200(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B201(Analog Comparator) :	On =0 Off =0 Gain =1.0+ Offset =0 Point=0
B204(On-Delay) :	Rem = off 01:00s+
B206(On-Delay) :	Rem = off 01:00s+
I1(Input) : Mode 0 = Breath Cycle Mode 1 = Assist Control	
I2(Input) : RUN PB	
I3(Input) : MAN. OPEN PB	
I4(Input) : MAN. CLOSE PB	
I5(Input) : ESTOP PB	

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Block Number (Type)	Parameter
M1(Flag) : CYCLE COMPLETE	
M2(Flag) : TICKTOCK	
Q1(Output) : OPEN ARM	
Q2(Output) : CLOSE ARM	



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